Appln. No. 09/917,147 Amdt. Dated June 6, 2003 Reply to Office Action of May 1, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

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### -1-(Currently Amended)

A mesostructured crystalline hydrated alumina composition consisting essentially of a boehmite, pseudoboehmite and mixtures thereof selected from the group consisting of gamma alumina, boehmite, and mixtures thereof and exhibiting at least one low angle x-ray diffraction line corresponding to a lattice spacing of at least 2.0 nm and multiple wide angle x-ray diffraction lines with CuK $\alpha$  radiation wherein  $\lambda$  is 0.1541 nm corresponding to an ordered lattice comprised of oxygen atoms and hydroxide groups with aluminum in interstitial positions within the lattice, wherein the surface area is at least 200 m²/g; and wherein the pore volume is at least 0.40 cm³/g.

Claim 2 (Cancelled)

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## -3-(Currently Amended)

A mesostructured crystalline hydrated alumina and organic modifier composite composition wherein the alumina composition consisting essentially of a boehmite, pseudoboehmite and mixtures thereof is selected from the group consisting of gamma alumina, boehmite, and mixtures thereof and exhibits at least one low angle x-ray diffraction line corresponding to a lattice spacing of at least 2.0 nm and multiple wide angle x-ray diffraction lines corresponding to an ordered lattice comprised of oxygen atoms and hydroxide groups with aluminum in interstitial positions within the lattice.

### -4-(Previously Amended)

The composition of Claim 3 wherein the organic 1 2 modifier component is a non-ionic surfactant.

# -5-(Previously Amended)

Claim 4 wherein composition of 1 2 surfactant is selected from the group consisting of a polyethylene oxide block co-polymer, an alkylene amine; 3 an alkylene polyamine, a polypropylene oxide amine, a polypropylene oxide polyamine and mixtures thereof. 5

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## -6-(Previously Amended)

The composition of any one of Claims 3, 4 or 5
wherein the hydrated alumina component is boehmite.

# -7-(Currently Amended)

A mesostructured crystalline transition alumina composition comprising gamma alumina selected from the group consisting of gamma alumina, boehmite, and mixtures thereof and:

wherein the composition exhibits at least one low angle x-ray diffraction line corresponding to a lattice spacing of at least 2.0 nm and multiple wide angle x-ray diffraction lines with CuK $\alpha$  radiation wherein where  $\lambda$  is 0.1541 nm corresponding to an ordered oxygen atom lattice with aluminum in interstitial positions within the lattice, wherein the surface area is at least 200 m<sup>2</sup>/g; and wherein the pore volume is at least 0.40 cm<sup>3</sup>/g.

### -8-(Currently Amended)

The mesostructured transition alumina of Claim
wherein the transition alumina consists essentially of
comprises gamma alumina.

### Claims 9-26 (Withdrawn)